ii) preparing a series of hairpin loop adapters which have single-strand cohesive ends of which base sequence is known;

iii) ligating the DNA fragments with the hairpin loop adapters prepared in the above step ii) by using a DNA ligase;

iv) removing DNA fragments and hairpin loop adapters which have not participated in the ligation reaction by using an exonuclease; and

(v) eliminating a hair pin loop structure only from the DNA fragments which contain the hairpin loop adapters, obtained in step iii), by using an alkaline solution, an RNase or a single strand specific exonuclease.

Please add the following claims:

13. (New) The method according to claim 1, wherein the series of hairpin loop adapters have a single-stand cohesive end comprising all sorts of single-strand DNAs which can be obtained by a random combination of four (4) nucleotides.

14. (New) The method according to claim 3, wherein the series of hairpin loop adapters have a single-stand cohesive end comprising all sorts of single-strand DNAs which can be obtained by a random combination of four (4) nucleotides.